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TEXAS INSTRUMENTS

# TIDA-01054 REV E1 Bill of Materials

| Item # | Designator | Quantity | Value | PartNumber | Manufacturer | Description | PackageReference |
|---|---|---|---|---|---|---|---|
| 1 | !PCB | 1 | | TIDA-01054 | Any | Printed Circuit Board | |
| 2 | 24Vin, GNDin, TP3, TP8, TP25, TP26, TP27, TP28, TP29, TP30, TP_3P3V, TP_3P8V, TP_5P5V, TP_18P5V, TPAGND1, TPAGND2, TPAGND3, TPAGND4, TPGND1, TPGND2, TPGND3, TPGND4, TPV4 | 23 | | 5015 | Keystone | Test Point, Miniature, SMT | Testpoint_Keystone_Miniature |
| 3 | C1, C43, C47, C354, C389, C391, C408, Cin, Cin1, Cin2, Cin3, Cout2 | 12 | 10uF | UMK325AB7106KM-T | Taiyo Yuden | CAP, CERM, 10 µF, 50 V, +/- 10%, X7R, 1210 | 1210 |
| 4 | C3 | 1 | 10uF | GRM21BR71A106KE51L | MuRata | CAP, CERM, 10uF, 10V, +/-10%, X7R, 0805 | 0805 |
| 5 | C4 | 1 | 1uF | GRM188R71A105KA61D | MuRata | CAP, CERM, 1uF, 10V, +/-10%, X7R, 0603 | 0603 |
| 6 | C5 | 1 | 47uF | GRM32ER71A476KE15L | MuRata | CAP, CERM, 47 µF, 10 V, +/- 10%, X7R, 1210 | 1210 |
| 7 | C9, C12, C13, C16, C17, C20, Cout4 | 7 | 47uF | C3216X5R1E476M160AC | TDK | CAP, CERM, 47 µF, 25 V, +/- 20%, X5R, 1206_190 | 1206_190 |
| 8 | C10 | 1 | 1000pF | CGA3E2X7R2A102K080AA | TDK | CAP, CERM, 1000 pF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 | 0603 |
| 9 | C11, C42, C45, Cout3 | 4 | 1uF | C2012X7S2A105K125AB | TDK | CAP, CERM, 1 µF, 100 V, +/- 10%, X7S, 0805 | 0805 |
| 10 | C14, C18 | 2 | 1000pF | GRM1885C1H102FA01J | MuRata | CAP, CERM, 1000 pF, 50 V, +/- 1%, C0G/NP0, 0603 | 0603 |
| 11 | C15, C19, C318, C319, C321, C339, C348, C453, CR479 | 9 | 1uF | GRM188R71E105KA12D | MuRata | CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603 | 0603 |
| 12 | C21, C22, C57, C58, C59, C60, C261, C262, C271, C272, C284, C287, C288, C289, C290, C291, C304, C305, C306, C307, C308, C338, C343, C345, C347, CR481 | 26 | 10uF | GRM21BR71A106KE51L | MuRata | CAP, CERM, 10 µF, 10 V, +/- 10%, X7R, 0805 | 0805 |
| 13 | C23, C24, C33 | 3 | 10uF | GRM188R61A106ME69D | MuRata | CAP, CERM, 10 µF, 10 V, +/- 20%, X5R, 0603 | 0603 |
| 14 | C25 | 1 | 0.47uF | GRM188R71E474KA12D | MuRata | CAP, CERM, 0.47 µF, 25 V, +/- 10%, X7R, 0603 | 0603 |
| 15 | C26, C28 | 2 | 22uF | GRM188R60J226MEA0D | MuRata | CAP, CERM, 22 µF, 6.3 V, +/- 20%, X5R, 0603 | 0603 |
| 16 | C27 | 1 | 0.1uF | GRM188R61C104KA01D | MuRata | CAP, CERM, 0.1 µF, 16 V, +/- 10%, X5R, 0603 | 0603 |
| 17 | C29 | 1 | 4.7uF | GRM188R61A475MAAJ | MuRata | CAP, CERM, 4.7 µF, 10 V, +/- 20%, X5R, 0603 | 0603 |
| 18 | C30 | 1 | 0.22uF | GRM188R61A224KA01D | MuRata | CAP, CERM, 0.22 µF, 10 V, +/- 10%, X5R, 0603 | 0603 |
| 19 | C31 | 1 | 0.22uF | GCM188R71H224KA64D | MuRata | CAP, CERM, 0.22 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 | 0603 |
| 20 | C32, C35 | 2 | 0.1uF | C1608X7R1H104K080AA | TDK | CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603 | 0603 |
| 21 | C34 | 1 | 0.033uF | GRM188R71H333KA61D | MuRata | CAP, CERM, 0.033 µF, 50 V, +/- 10%, X7R, 0603 | 0603 |
| 22 | C37 | 1 | 910pF | C0603C911J5GACTU | Kemet | CAP, CERM, 910 pF, 50 V, +/- 5%, C0G/NP0, 0603 | 0603 |
| 23 | C38 | 1 | 10pF | CGA3E2C0G1H100D080AA | TDK | CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0603 | 0603 |
| 24 | C39 | 1 | 150pF | GRM1885C1H151JA01D | MuRata | CAP, CERM, 150 pF, 50 V, +/- 5%, C0G/NP0, 0603 | 0603 |
| 25 | C40 | 1 | 0.022uF | GRM188R71H223KA01D | MuRata | CAP, CERM, 0.022 µF, 50 V, +/- 10%, X7R, 0603 | 0603 |
| 26 | C41 | 1 | 22uF | C2012X5R1V226M125AC | TDK | CAP, CERM, 22 µF, 35 V, +/- 20%, X5R, 0805 | 0805 |
| 27 | C46 | 1 | 0.01uF | GCM188R71H103KA37D | MuRata | CAP, CERM, 0.01 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 | 0603 |
| 28 | C53, C54, C55, C56, C94, C95, C340, C344, C346, C349, C350 | 11 | 0.1uF | GRM155R71C104KA88D | MuRata | CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0402 | 0402 |
| 29 | C61, C84, C85, C91, C92, C93, C108, C112, C116, C120, C121, C122, C259, C260, C266, C267, C268, C269, C320, C454, C455, C460 | 22 | 0.1uF | C0603C104J3RACTU | Kemet | CAP, CERM, 0.1 µF, 25 V, +/- 5%, X7R, 0603 | 0603 |
| 30 | C62, C449, C457, C458, C459 | 5 | 10uF | ZRB18AD71A106KE01L | MuRata | CAP, CERM, 10 µF, 10 V, +/- 10%, X7T, 0603 | 0603 |
| 31 | C63, C64 | 2 | 0.1uF | GRM155R61E104KA87D | MuRata | CAP, CERM, 0.1 µF, 25 V, +/- 10%, X5R, 0402 | 0402 |
| 32 | C71, C72, C96, C97 | 4 | 100pF | GCM1885C2A101JA16D | MuRata | CAP, CERM, 100 pF, 100 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0603 | 0603 |
| 33 | C79, C80, C81, C82, C104, C105, C106, C107 | 8 | 0.1uF | GRM188R72A104KA35D | MuRata | CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 0603 | 0603 |
| 34 | C83 | 1 | 68pF | GRM1885C2A680JA01D | MuRata | CAP, CERM, 68 pF, 100 V, +/- 5%, C0G/NP0, 0603 | 0603 |
| 35 | C86, C87, C111, C114 | 4 | 390pF | GRM1885C2A391JA01D | MuRata | CAP, CERM, 390 pF, 100 V, +/- 5%, C0G/NP0, 0603 | 0603 |
| 36 | C88, C119 | 2 | 1uF | GRM188R71A105KA61D | MuRata | CAP, CERM, 1 µF, 10 V, +/- 10%, X7R, 0603 | 0603 |
| 37 | C109, C115 | 2 | 1000pF | C0603C102J5GAC | Kemet | CAP, CERM, 1000 pF, 50 V, +/- 5%, C0G/NP0, 0603 | 0603 |
| 38 | C110, C113 | 2 | 130pF | GRM1885C2A131JA01D | MuRata | CAP, CERM, 130 pF, 100 V, +/- 5%, C0G/NP0, 0603 | 0603 |
| 39 | C117, C118, C315 | 3 | 1000pF | C1608C0G2A102J080AA | TDK | CAP, CERM, 1000 pF, 100 V, +/- 5%, C0G/NP0, 0603 | 0603 |
| 40 | C322, C323 | 2 | 22uF | C1608X5R1A226M080AC | TDK | CAP, CERM, 22 µF, 10 V, +/- 20%, X5R, 0603 | 0603 |
| 41 | C351, C352, C353 | 3 | 4.7uF | 293D475X9025C2TE3 | Vishay-Sprague | CAP, TA, 4.7 µF, 25 V, +/- 10%, 2 ohm, SMD | 6032-28 |
| 42 | C355, C359, C360, C367, C371, C372, C379, C383, C384 | 9 | 0.1uF | C2012X7R2A104K125AA | TDK | CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 0805 | 0805 |
| 43 | C356, C368, C380 | 3 | 4.7uF | C3216X7R1V475K085AC | TDK | CAP, CERM, 4.7 µF, 35 V, +/- 10%, X7R, 1206 | 1206 |
| 44 | C357, C358, C369, C370, C381, C382 | 6 | 10uF | GRM31CR71E106KA12L | MuRata | CAP, CERM, 10 µF, 25 V, +/- 10%, X7R, 1206 | 1206 |
| 45 | C361, C373, C385 | 3 | 0.47uF | GCM188R71E474KA64D | MuRata | CAP, CERM, 0.47 µF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 | 0603 |
| 46 | C362, C375, C388 | 3 | 0.1uF | C1005X6S1H104K050BB | TDK | CAP, CERM, 0.1 µF, 50 V, +/- 10%, X6S, 0402 | 0402 |
| 47 | C363, C374, C387 | 3 | 100pF | C0402C101J3GACTU | Kemet | CAP, CERM, 100 pF, 25 V, +/- 5%, C0G/NP0, 0402 | 0402 |
| 48 | C364, C366, C376, C378 | 4 | 22uF | CGA6P1X7R1C226M250AC | TDK | CAP, CERM, 22 µF, 16 V, +/- 20%, X7R, AEC-Q200 Grade 1, 1210 | 1210 |
| 49 | C401 | 1 | 10uF | C3225X7S1H106K250AB | TDK | CAP, CERM, 10 µF, 50 V, +/- 10%, X7S, 1210 | 1210 |
| 50 | C402 | 1 | 0.1uF | C1608X5R1H104K080AA | TDK | CAP, CERM, 0.1 µF, 50 V, +/- 10%, X5R, 0603 | 0603 |
| 51 | C403 | 1 | 4.7uF | GRM188R61E475KE11D | MuRata | CAP, CERM, 4.7 µF, 25 V, +/- 10%, X5R, 0603 | 0603 |
| 52 | C404 | 1 | 0.47uF | C1608X5R1H474K080AB | TDK | CAP, CERM, 0.47 µF, 50 V, +/- 10%, X5R, 0603 | 0603 |
| 53 | C405 | 1 | 1uF | C1608X7R1V105K080AC | TDK | CAP, CERM, 1 µF, 35 V, +/- 10%, X7R, 0603 | 0603 |
| 54 | C406 | 1 | 22uF | C3216X5R1V226M160AC | TDK | CAP, CERM, 22 µF, 35 V, +/- 20%, X5R, 1206 | 1206 |
| 55 | C407 | 1 | 0.022uF | C0603C223K3RACTU | Kemet | CAP, CERM, 0.022 µF, 25 V, +/- 10%, X7R, 0603 | 0603 |
| 56 | C409 | 1 | 100pF | 885012006057 | Wurth Elektronik | CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603 | 0603 |
| 57 | C452 | 1 | 0.22uF | 0805YC224JAT2A | AVX | CAP, CERM, 0.22 µF, 16 V, +/- 5%, X7R, 0805 | 0805 |
| 58 | C461 | 1 | 10pF | C0603C100F5GAC7867 | Kemet | CAP, CERM, 10 pF, 50 V, +/- 1%, C0G/NP0, 0603 | 0603 |
| 59 | Cff | 1 | 0.022uF | C1608X7R2A223K080AA | TDK | CAP, CERM, 0.022 µF, 100 V, +/- 10%, X7R, 0603 | 0603 |
| 60 | Cff2, Cff3 | 2 | 0.022uF | 08055C223KAT2A | AVX | CAP, CERM, 0.022uF, 50V, +/-10%, X7R, 0805 | 0805 |
| 61 | Cout1 | 1 | 22uF | C2012JB1V226M125AC | TDK | CAP, CERM, 22 µF, 35 V, +/- 20%, JB, 0805 | 0805 |
| 62 | Cout5 | 1 | 100uF | C3225X6S0J107M250AC | TDK | CAP, CERM, 100 µF, 6.3 V, +/- 20%, X6S, 1210 | 1210 |
| 63 | Cout6 | 1 | 1uF | C0603C105K3RACTU | Kemet | CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603 | 0603 |
| 64 | Css | 1 | 4700pF | CGA3E2X7R2A472K080AA | TDK | CAP, CERM, 4700 pF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 | 0603 |
| 65 | Css2, Css3 | 2 | 0.01uF | GRM188R70J103KA01D | MuRata | CAP, CERM, 0.01 µF, 6.3 V, +/- 10%, X7R, 0603 | 0603 |
| 66 | CVCC3V, CVCC5V, CVCC18V | 3 | 2.2uF | GCM188R70J225KE22D | MuRata | CAP, CERM, 2.2 µF, 6.3 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 | 0603 |
| 67 | D1 | 1 | 200V | MBRS4201T3G | ON Semiconductor | Diode, Schottky, 200 V, 4 A, SMC | SMC |
| 68 | D2 | 1 | 100V | DFLS1100-7 | Diodes Inc. | Diode, Schottky, 100 V, 1 A, PowerDI123 | PowerDI123 |
| 69 | D14, D18, D21, D22 | 4 | Red | 150060RS75000 | Wurth Elektronik | LED, Red, SMD | LED_0603 |
| 70 | FDA1 | 1 | | THS4551IRGTR | Texas Instruments | Low Power, Precision, 160MHz, Fully Differential Amplifier, RGT0016A | RGT0016A |
| 71 | H1, H2, H3, H4 | 4 | | NY PMS 440 0025 PH | B&F Fastener Supply | Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead | Screw |
| 72 | H5, H6, H7, H8 | 4 | | 1902C | Keystone | Standoff, Hex, 0.5"L #4-40 Nylon | Standoff |
| 73 | H9, H11, H13, H15 | 4 | | 9774050360R | Wurth Elektronik | ROUND STANDOFF M3 STEEL 5MM | ROUND STANDOFF M3 STEEL 5MM |
| 74 | J3 | 1 | | 61300311121 | Wurth Elektronik eiSos | Header, 2.54 mm, 3x1, Gold, TH | Header, 2.54mm, 3x1, TH |
| 75 | J4, J7 | 2 | | QTH-030-01-L-D-A | Samtec | Header(Shrouded), 19.7mil, 30x2, Gold, SMT | Header (Shrouded), 19.7mil, 30x2, SMT |
| 76 | J5, J6, JMTI_-18V, JPRI_-18V, JSI_3.3V, JSI_5V, JSI_18V, JZI_3.3V, JZI_5V, JZI_18V | 10 | | 61300211121 | Wurth Elektronik eiSos, Wurth Elektronik eiSos, Wurth Elektronik, Wurth Elektronik, Wurth Elektronik, Wurth Elektronik, Wurth Elektronik, Wurth Elektronik, Wurth Elektronik, Wurth Elektronik | Header, 2.54 mm, 2x1, Gold, TH | Header, 2.54mm, 2x1, TH |
| 77 | J8 | 1 | | 691213710002 | Wurth Elektronik | Terminal Block, 2x1, Brass, TH | Terminal Block, 2-Leads, Body 10x8.3mm, Pitch 5mm |
| 78 | J14, J15, J18, J19 | 4 | | 901-144-8RFX | Amphenol RF | SMA Straight Jack, Gold, 50 Ohm, TH | SMA Straight Jack, TH |
| 79 | J37, J38, J39, JTI_3.3V, JTI_5V, JTI_18V, JTI_-18V | 7 | | TMM-103-01-G-S-SM | Samtec | Header, 2mm, 3x1, Gold, SMT | Header, 2mm, 3x1, SMT |
| 80 | L1 | 1 | 330uH | DR73-331-R | Coiltronics | Inductor, Shielded Drum Core, Ferrite, 330 µH, 0.42 A, 1.59 ohm, SMD | DR73 |
| 81 | L4, L5, L6, L7, L8, L9, L10, L12, L16, L17, L18, L19 | 12 | 600 ohm | MPZ2012S601A | TDK | Ferrite Bead, 600 ohm @ 100MHz, 2A, 0805 | 0805 |
| 82 | L20, L22, L24 | 3 | 3.3uH | NR3015T3R3M | Taiyo Yuden | Inductor, Wirewound, Ferrite, 3.3 µH, 1.21 A, 0.096 ohm, AEC-Q200 Grade 2, SMD | 3x3mm |
| 83 | L21, L23, L25 | 3 | 6.8uH | 744025006 | Wurth Elektronik | Inductor, Shielded Drum Core, Ferrite, 6.8 µH, 1.1 A, 0.142 ohm, SMD | Inductor, 2.8x2.8x2.8mm |
| 84 | L401 | 1 | 68uH | 744031680 | Wurth Elektronik | Inductor, Shielded Drum Core, Metal Composite, 68 µH, 0.22 A, 1.15 ohm, SMD | 3.8x1.65x3.8mm |
| 85 | OPAN_1, OPAN_2, OPAP_1, OPAP_2 | 4 | | OPA827AIDR | Texas Instruments | Low-Noise, High-Precision, JFET-Input OPERATIONAL AMPLIFIER, D0008A | D0008A |
| 86 | R3, R4 | 2 | 0.22 | ERJ-3RQFR22V | Panasonic | RES, 0.22 ohm, 1%, 0.1W, 0603 | 0603 |
| 87 | R8, R9, R10, R13, R14, R19, R25, R32, R35, R36, R56, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R211, R212, R213, R223, R225, R226, R232, R233, R234, R235, R240, R248, R250, R252, R259, R262, R279, R280, R284, R288, R454, RB3, RB5, RB18, RMFBN2, RMFBP2 | 59 | 0 | ERJ-2GE0R00X | Panasonic | RES, 0, 5%, 0.063 W, 0402 | 0402 |
| 88 | R21 | 1 | 0 | CRCW06030000Z0EA | Vishay-Dale | RES, 0, 5%, 0.1 W, 0603 | 0603 |
| 89 | R22 | 1 | 4.70 | RT0603DRE074R7L | Yageo America | RES, 4.70, 0.5%, 0.1 W, 0603 | 0603 |
| 90 | R40 | 1 | 215k | RT0603BRD07215KL | Yageo America | RES, 215 k, 0.1%, 0.1 W, 0603 | 0603 |
| 91 | R41 | 1 | 23.2k | RG1608P-2322-B-T5 | Susumu Co Ltd | RES, 23.2 k, 0.1%, 0.1 W, 0603 | 0603 |
| 92 | R42 | 1 | 1.65k | RG1608P-1651-B-T5 | Susumu Co Ltd | RES, 1.65 k, 0.1%, 0.1 W, 0603 | 0603 |
| 93 | R43 | 1 | 30.9k | RG1608P-3092-B-T5 | Susumu Co Ltd | RES, 30.9 k, 0.1%, 0.1 W, 0603 | 0603 |
| 94 | R44 | 1 | 2.15k | RT0603BRD072K15L | Yageo America | RES, 2.15 k, 0.1%, 0.1 W, 0603 | 0603 |
| 95 | R45 | 1 | 52.3k | RT0603BRD0752K3L | Yageo America | RES, 52.3 k, 0.1%, 0.1 W, 0603 | 0603 |
| 96 | R46 | 1 | 910 | RC0603JR-07910RL | Yageo America | RES, 910, 5%, 0.1 W, 0603 | 0603 |
| 97 | R47 | 1 | 18.0k | RT0603BRD0718KL | Yageo America | RES, 18.0 k, 0.1%, 0.1 W, 0603 | 0603 |
| 98 | R50, R216 | 2 | 20.0k | RG1608P-203-B-T5 | Susumu Co Ltd | RES, 20.0 k, 0.1%, 0.1 W, 0603 | 0603 |
| 99 | R64, R87 | 2 | 10.0k | CRCW060310K0FKEA | Vishay-Dale | RES, 10.0 k, 1%, 0.1 W, 0603 | 0603 |
| 100 | R88, R89, R91 | 3 | 4.7k | CRCW04024K70JNED | Vishay-Dale | RES, 4.7 k, 5%, 0.063 W, 0402 | 0402 |
| 101 | R92 | 1 | 100 | CRCW0402100RJNED | Vishay-Dale | RES, 100, 5%, 0.063 W, 0402 | 0402 |
| 102 | R95, R256, R257, R278 | 4 | 33 | CRCW040233R0JNED | Vishay-Dale | RES, 33, 5%, 0.063 W, 0402 | 0402 |
| 103 | R97, R98, R107, R108, R110, R214, R485, R491 | 8 | 1.00k | RG1608P-102-B-T5 | Susumu Co Ltd | RES, 1.00 k, 0.1%, 0.1 W, 0603 | 0603 |
| 104 | R99 | 1 | 249 | CRCW0603249RFKEA | Vishay-Dale | RES, 249, 1%, 0.1 W, 0603 | 0603 |
| 105 | R100, R101, R114, R116, RDN2, RDN4, RDP2, RDP4 | 8 | 1.00k | RT0603BRB071KL | Yageo America | RES, 1.00 k, 0.1%, 0.1 W, 0603 | 0603 |
| 106 | R103, R104, R115, R117 | 4 | 20.0 | RT0603BRD0720RL | Yageo America | RES, 20.0, 0.1%, 0.1 W, 0603 | 0603 |
| 107 | R112, R113 | 2 | 124 | RC0603FR-07124RL | Yageo America | RES, 124, 1%, 0.1 W, 0603 | 0603 |
| 108 | R215, R492 | 2 | 499 | RG1608P-4990-B-T5 | Susumu Co Ltd | RES, 499, 0.1%, 0.1 W, 0603 | 0603 |
| 109 | R217, R218, R246, R247 | 4 | 49.9k | RG1608P-4992-B-T5 | Susumu Co Ltd | RES, 49.9 k, 0.1%, 0.1 W, 0603 | 0603 |
| 110 | R258, R261 | 2 | 10.0k | RG1608P-103-B-T5 | Susumu Co Ltd | RES, 10.0 k, 0.1%, 0.1 W, 0603 | 0603 |
| 111 | R268, R269 | 2 | 1.00 | CRCW06031R00FKEA | Vishay-Dale | RES, 1.00, 1%, 0.1 W, 0603 | 0603 |
| 112 | R290 | 1 | 36k | CRCW040236K0JNED | Vishay-Dale | RES, 36 k, 5%, 0.063 W, 0402 | 0402 |
| 113 | R291, R295, R298 | 3 | 100k | CRCW0402100KFKED | Vishay-Dale | RES, 100 k, 1%, 0.063 W, 0402 | 0402 |
| 114 | R294 | 1 | 22.6k | CRCW040222K6FKED | Vishay-Dale | RES, 22.6 k, 1%, 0.063 W, 0402 | 0402 |
| 115 | R297 | 1 | 5.62k | PCF0402-12-5K62BT1 | TT Electronics/IRC | RES, 5.62 k, 0.1%, 0.063 W, 0402 | 0402 |
| 116 | R401 | 1 | 58.3k | RT0603BRD0758K3L | Yageo America | RES, 58.3 k, 0.1%, 0.1 W, 0603 | 0603 |
| 117 | R402 | 1 | 1.00Meg | RC0603FR-071ML | Yageo America | RES, 1.00 M, 1%, 0.1 W, 0603 | 0603 |
| 118 | R404 | 1 | 80.6k | CRCW060380K6FKEA | Vishay-Dale | RES, 80.6 k, 1%, 0.1 W, 0603 | 0603 |
| 119 | R486 | 1 | 2.49k | RG1608P-2491-B-T5 | Susumu Co Ltd | RES, 2.49 k, 0.1%, 0.1 W, 0603 | 0603 |
| 120 | R488 | 1 | 4.99k | RG1608P-4991-B-T5 | Susumu Co Ltd | RES, 4.99 k, 0.1%, 0.1 W, 0603 | 0603 |
| 121 | R489 | 1 | 4.75 | CRCW06034R75FKEA | Vishay-Dale | RES, 4.75, 1%, 0.1 W, 0603 | 0603 |
| 122 | R494 | 1 | 30.0k | RG1608P-303-B-T5 | Susumu Co Ltd | RES, 30.0 k, 0.1%, 0.1 W, 0603 | 0603 |
| 123 | RDN1, RDN3, RDP1, RDP3 | 4 | 0 | ERJ-3GEY0R00V | Panasonic | RES, 0, 5%, 0.1 W, 0603 | 0603 |
| 124 | Renb | 1 | 20.5k | CRCW080520K5FKEA | Vishay-Dale | RES, 20.5 k, 1%, 0.125 W, 0805 | 0805 |
| 125 | Renb2, Renb3 | 2 | 3.57k | RG1608P-3571-B-T5 | Susumu Co Ltd | RES, 3.57 k, 0.1%, 0.1 W, 0603 | 0603 |
| 126 | Rent | 1 | 118k | RT0805BRD07118KL | Yageo America | RES, 118k ohm, 0.1%, 0.125W, 0805 | 0805 |
| 127 | Rent2, Rent3 | 2 | 68.1k | RT0603BRD0768K1L | Yageo America | RES, 68.1 k, 0.1%, 0.1 W, 0603 | 0603 |
| 128 | RES3V, RES5V, RES18V | 3 | 100k | RG1608P-104-B-T5 | Susumu Co Ltd | RES, 100 k, 0.1%, 0.1 W, 0603 | 0603 |
| 129 | Rfbb | 1 | 1.50k | RG1608P-152-B-T5 | Susumu Co Ltd | RES, 1.50 k, 0.1%, 0.1 W, 0603 | 0603 |
| 130 | Rfbb3, Rfbb5 | 2 | 1.07k | RT0805BRD071K07L | Yageo America | RES, 1.07 k, 0.1%, 0.125 W, 0805 | 0805 |
| 131 | Rfbt | 1 | 34.0k | RT0603BRD0734KL | Yageo America | RES, 34.0 k, 0.1%, 0.1 W, 0603 | 0603 |
| 132 | Rfbt2 | 1 | 6.34k | CPF0603B6K34E | TE Connectivity | RES, 6.34 k, 0.1%, 0.063 W, 0603 | 0603 |
| 133 | Rfbt3 | 1 | 4.02k | RG1608P-4021-B-T5 | Susumu Co Ltd | RES, 4.02 k, 0.1%, 0.1 W, 0603 | 0603 |
| 134 | Ron | 1 | 383k | RT0603BRD07383KL | Yageo America | RES, 383 k, 0.1%, 0.1 W, 0603 | 0603 |
| 135 | Ron2 | 1 | 113k | RT0603BRD07113KL | Yageo America | RES, 113 k, 0.1%, 0.1 W, 0603 | 0603 |
| 136 | Ron3 | 1 | 78.7k | RT0603BRD0778K7L | Yageo America | RES, 78.7 k, 0.1%, 0.1 W, 0603 | 0603 |
| 137 | RR413 | 1 | 0.22 | ERJ-3RQFR22V | Panasonic | RES, 0.22, 1%, 0.1 W, 0603 | 0603 |
| 138 | U1, U2 | 2 | | OPA625IDBVR | Texas Instruments | High Bandwidth, High Precision, Low Noise and Distortion Amplifier with Ultra-Fast Transition time Low Power mode, DBV0006A | DBV0006A |
| 139 | U3 | 1 | | REF6041IDGKR | Texas Instruments | High-Precision Voltage Reference with Integrated High-Bandwidth Buffer, DGK0008A | DGK0008A |
| 140 | U3P8V, U5P5V, U18P5V | 3 | | LM53635RNL | Texas Instruments | LM53635, RNL0022A (VQFN-HR-22) | RNL0022A |
| 141 | U4 | 1 | | OPA376AIDBVR | Texas Instruments | Precision, Low Noise, Low Iq Operational Amplifier, 2.2 to 5.5 V, -40 to 125 degC, 5-pin SOT23 (DBV0005A), Green (RoHS & no Sb/Br) | DBV0005A |
| 142 | U5 | 1 | | LMZ14202TZX-ADJ/NOPB | Texas Instruments | 2A SIMPLE SWITCHER® Power Module with 42V Maximum Input, 7 pin TO-PMOD | TZA07A |
| 143 | U6, U7, U8 | 3 | | TPS7A4700RGWR | Texas Instruments | 36-V, 1-A, 4.17-µVRMS, RF LDO Voltage Regulator, RGW0020A | RGW0020A |
| 144 | U9 | 1 | | LM5574MT | Texas Instruments | SIMPLE SWITCHER® 75V, 0.5A Step-Down Switching Regulator, 16-pin TSSOP | MTC16 |
| 145 | U10 | 1 | | LM7705MM/NOPB | Texas Instruments | Low Noise Negative Bias Generator, 8-pin Mini SOIC, Pb-Free | MUA08A |
| 146 | U11 | 1 | | TPS7A3001MDGNTEP | Texas Instruments | Single Output High PSRR LDO, 200 mA, Adjustable -1.18 to -33 V Output, -3 to -36 V Input, with Ultra-Low Noise, 8-pin MSOP (DGN), -55 to 125 degC, Green (RoHS & no Sb/Br) | DGN0008D |
| 147 | U13, U14 | 2 | | BR24G32FVT-3AGE2 | Rohm | I2C BUS EEPROM (2-Wire), TSSOP-B8 | TSSOP-8 |
| 148 | U15 | 1 | | LMK61E2-SIAR | Texas Instruments | Ultra-Low Jitter Programmable Oscillator with Internal EEPROM, SIA0008B | SIA0008B |
| 149 | U18, U31 | 2 | | SN74AUP1G80DCKR | Texas Instruments | LOW-POWER SINGLE POSITIVE-EDGE-TRIGGERED D-TYPE FLIP-FLOP, DCK0005A | DCK0005A |
| 150 | U19, U32 | 2 | | SN74AHC1G04DBVR | Texas Instruments | SINGLE SCHMITT-TRIGGER INVERTER GATE, DBV0005A | DBV0005A |
| 151 | U22 | 1 | | LMZ14201TZX-ADJ/NOPB | Texas Instruments | 1A SIMPLE SWITCHER® Power Module with 42V Maximum Input, 7 pin TO-PMOD | TZA07A |
| 152 | U23 | 1 | | LMZ14203TZ-ADJ/NOPB | Texas Instruments | 3A SIMPLE SWITCHER® Power Module with 42V Maximum Input Voltage, 7-pin TO-PMOD, Pb-Free | TZA07A |
| 153 | U33 | 1 | | LMK00804BPW | Texas Instruments | Low Skew, 1-to-4 Multiplexed Differential/LVCMOS-to-LVCMOS/TTL Fanout Buffer, PW0016A | PW0016A |
| 154 | U401 | 1 | | LM46001PWPR | Texas Instruments | SIMPLE SWITCHER 3.5 V to 60 V 1 A Synchronous Step-Down Voltage Converter, PWP0016G (TSSOP-16) | PWP0016G |
| 155 | U414 | 1 | | OPA378AIDBVT | Texas Instruments | Low-Noise, 900 kHz, RRIO, Precision Operational Amplifier, Zerø-Drift Series, 2.2 to 5.5 V, -40 to 125 degC, 5-pin SOT23 (DBV0005A), Green (RoHS & no Sb/Br) | DBV0005A |
| 156 | U415 | 1 | | OPA625IDBVR | Texas Instruments | High-Bandwidth, High-Precision, Low THD+N, 16-Bit and 18-Bit Analog-to-Digital Converter (ADC) Drivers, DBV0006A | DBV0006A |
| 157 | U422 | 1 | | REF5040AIDGKT | Texas Instruments | Low Noise, Very Low Drift, Precision Voltage Reference, -40 to 125 degC, 8-pin MSOP (DGK), Green (RoHS & no Sb/Br) | DGK0008A |
| 158 | UADS1, UADS2 | 2 | | ADS8900BRGER | Texas Instruments | 20-Bit, High-Speed SAR ADCs With Integrated Reference Buffer, Integrated LDO, and multiSPI Digital Interface, RGE0024H (VQFN-24) | RGE0024H |
| 159 | C89, C90, C316, C317 | 0 | 1000pF | C1608C0G2A102J080AA | TDK | CAP, CERM, 1000 pF, 100 V, +/- 5%, C0G/NP0, 0603 | 0603 |
| 160 | C335 | 0 | 0.01uF | CGA3E2C0G1H103J080AA | TDK | CAP, CERM, 0.01 µF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0603 | 0603 |
| 161 | CMFB | 0 | 68pF | GRM1885C2A680JA01D | MuRata | CAP, CERM, 68 pF, 100 V, +/- 5%, C0G/NP0, 0603 | 0603 |
| 162 | FID1, FID2, FID3, FID4, FID5, FID6 | 0 | | N/A | N/A | Fiducial mark. There is nothing to buy or mount. | Fiducial |
| 163 | R11, R12, R15, R17, R18, R20, R24, R26, R27, R29, R30, R31, R33, R34, R255, R260, R263, R453, R457, REN0, REN1, RMFBN, RMFBP, RR457 | 0 | 0 | ERJ-2GE0R00X | Panasonic | RES, 0, 5%, 0.063 W, 0402 | 0402 |
| 164 | R90 | 0 | 4.7k | CRCW04024K70JNED | Vishay-Dale | RES, 4.7 k, 5%, 0.063 W, 0402 | 0402 |